ISP Series
Serial Memory Plug Tokens

Datakey®

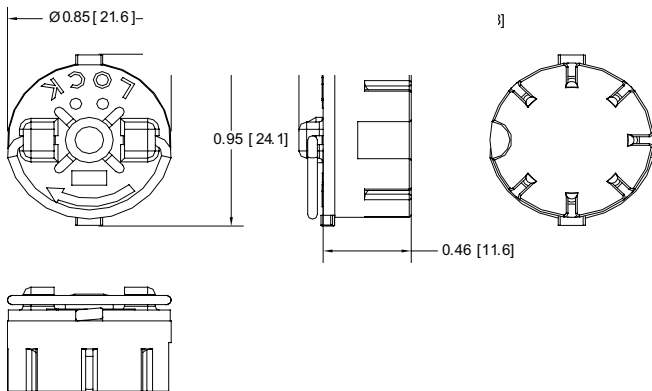The power of memory. Secured.

The ISP series of plug memory tokens contain 1 Kb to 256 Kb of non-volatile, serial I²C EEPROM memory[1]. The ISP token features corrosion-resistant contacts and is molded using a rugged composite, which protects the embedded memory from harsh environmental influences, such as vibration, ice, dirt, moisture, chemicals, X-rays and electrostatic discharge. The ISP token features a locking mechanism, making it well-suited for high-vibration applications. It also uses a foldable bail, providing a means of easily inserting and removing the token, while folding flat to allow for a flush mount.

Ø 0.85 [21.6]
0.95 [24.1]
0.46 [11.6]

Drawing dimensions are in inches and millimeters [mm].
Dimensions are nominal and subject to manufacturer's tolerances.

1: Complete I²C interface specification available at www.datakey.com
2: "A" suffix on part number indicates RoHS compliance. See CE declaration to the right for details.
3: It is recommended that all new key/token implementations be designed to operate with power supplies in the range of 2.7 to 3.6 volts. Although there are no immediate difficulties in procuring memory devices that operate in the 4.5 to 5.5 volt range, future availability may be impacted as semiconductor manufacturers shrink their die geometries.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

View our full product line at www.datakey.com

MECHANICAL	
Color	Black w/Gray Top
Weight	8.5 g (0.3 oz) Maximum
Bail Torque	1.4 N-m (12 in-lbf) Maximum
Bail Pull	67 N (15 lbf) Minimum
	110 N (25 lbf) Maximum
Contact Life	10,000 Minimum Insertion/Removals
Shock (mated)	Meets or Exceeds MIL-STD-883F, Method 2002.4 Test Condition A
Vibration (mated)	Meets or Exceeds MIL-STD-883F, Method 2007.3 Test Condition A

ELECTRICAL[1]	
Power, Active	25 mW, Typical at 5 V
Power, Standby	200 µW, Typical at 5 V
Voltage[3]	2.7 to 5.5 V
ESD Protection	15 kV (air), 10 kV (contact)
Device Address	Zero (0), Consult ATEK for Options

ENVIRONMENTAL	
Storage Temperature	-40°C to +100°C
Operating Temperature	-40°C to +80°C
Relative Humidity	5% to 95% (non-condensing)

MEMORY[1]	
Token:	Capacity:
ISP1Kb	1 Kb (1024 bits) 128 x 8
ISP4Kb	4 Kb (4096 bits) 512 x 8
ISP16Kb	16 Kb (16,384 bits) 2048 x 8
ISP64Kb	64 Kb (65,536 bits) 8192 x 8
ISP256Kb	256 Kb (262,144 bits) 32,768 x 8
Read Cycles	Unlimited
Write/Erase Cycles	1,000,000 Minimum
Data Life	10 Years Minimum

MATING COMPONENTS	
KSD Receptacle	615-0004-000A
KSDLink III Programmer	699-0057-001A

ORDERING INFORMATION[2]	
ISP1Kb	614-0014-000A
ISP4Kb	614-0004-000A
ISP16Kb	614-0015-000A
ISP64Kb	614-0016-000A
ISP256Kb	614-0013-000A

NOTES: Conforms with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, and as amended by Directive 2015/863/EU, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

CE

ATEK Access Technologies

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